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Corporate award winners announced

by Jill Bohn, AFRL Public Affairs

WRIGHT-PATTERSON AFB, Ohio — Winners of the 2nd annual Air Force Research Laboratory (AFRL) Corporate awards were announced July 11 during a banquet ceremony in the Great Hall, David H. Ponitz Sinclair Center, Sinclair Community College, Dayton.

This year's competition saw 92 nominations submitted all across AFRL. Military, civilian and contractor employees are eligible for the competition. The selection of finalists and winners were made by the AFRL corporate awards selection board and approved by Maj. Gen. Paul D. Nielsen.

Corporate awards continued on page 3



BRIGHTER STAR — Air Force Research Laboratory Commander Major General Paul D. Nielsen (center) pinned on a second star Friday, with the help of his wife, Dotty. General Lester Lyles, Commander of the Air Force Materiel Command presided over the event held at the Air Force Museum, while Nielsen's executive officer Capt. Timothy Schulte looked on. (USAF photo by Jill Bohn)

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<http://extra.afrl.af.mil/news/index.htm>

New Center of Excellence at Rome by Fran Crumb, Information Directorate

ROME, N.Y. — The Air Force Research Laboratory (AFRL) Information Directorate recently conducted a colloquium to inaugurate the Center of Excellence for Integrated Transmission and Exploitation (CITE).

CITE is a joint endeavor of the Information Directorate and the Air Force Office of Scientific Research (AFOSR) that will focus on basic and applied research in the science and engineering of integrated transmission and exploitation.

"Current information technology cannot form a common operating picture for decision-makers and does not allow the sharing of information with coalition partners," said Bruce W. Suter of the directorate's Information Grid Division and director of CITE.

"The Department of Defense report to Congress following the Kosovo operation highlighted limited military performance against 'difficult targets'," said Suter. "The report also identified limitations in the capability for combat identification and for reaching deep beyond enemy lines."

CITE's vision is development of technology that will enable interconnected and geographically separated decision-makers the capability to access real-time intelligence, surveillance and reconnaissance information and conduct command and control operations via a "Global Grid."

"Current data transmission and exploitation systems are unable to reconfigure and adapt resources on demand," said Suter. "They are also unable to extract and process information dynamically tailored to a given situation or to access and disseminate information in a timely manner. CITE hopes to provide a systems approach to solving those shortfalls."

Marlan Scully, chaired professor in both physics and electrical engineering at Texas A&M University, offered a view of future advances in information technology during his keynote speech to the colloquium: "Current Activities and Future Trends in Quantum Information Technology."

Those future advances could include quantum computers that exploit the laws of quantum mechanics governing the behavior of matter at the atomic level and capable of storing more numbers than there are atoms in the universe.

He also discussed recent experiments that have shown light pulses can be slowed to speeds on only meters per second in certain quantum materials – a finding that holds further potential for advances in electronics and information science. @

Find additional features on the web

**Gen. Ryan visits Maui Space
Surveillance Complex**

**Taking the mystery out of
classification**

**Upcoming robotics
tournament at AF Museum**

"Star Wars" cyro tank to start new life with NASA

by Fran Crumb, Information Directorate

ROME, N.Y. — A multi-million-dollar cryogenic chamber, erected as part of Air Force research for President Reagan's Strategic Defense Initiative (SDI) of the 1980s, will be given new life enhancing NASA space science capabilities for the 21st century.

A crane lifted the main, two-story tank from an annex of the Air Force Research Laboratory (AFRL) Information Directorate on June 20. The tank, as well as mounts and controls, are being trucked to NASA's Marshall Space Flight Center in Huntsville, Ala.

Opened in June 1989 as the "Cryogenic Test Facility" at the then Rome Air Development Center, the chamber was built to test prototype space systems and components in pressures and temperatures simulating space environments. The chamber and associated equipment cost approximately \$4 million. It was funded through the Strategic Defense Initiative Office (SDIO), at a time when testing was projected for large optical components of a space-based surveillance system.

Pressure in the chamber can be lowered to near vacuum conditions and the facility was designed to drop temperatures to 100 degrees Kelvin - or 279 degrees below zero on the Fahrenheit scale. It can accommodate test articles up to two meters (six feet) in size.

"The cryo chamber was used for more than just testing objects in extreme cold," said James W. Cusack, an engineer on the program at the time and now chief of the Information Directorate's Information Systems Division. "It also served as an optical test chamber."

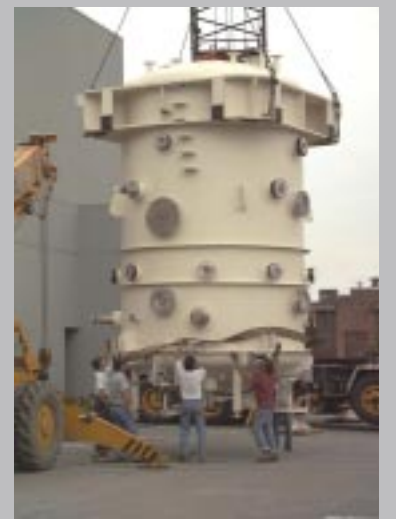
"Our original mission was to test optics envisioned for a space-based ballistic missile defense system," said Cusack. "With this chamber, engineers would look down at the mirror being tested

from above and conduct experiments with classic optical test equipment. Based on chamber observations, the surface of mirrors could be altered to eliminate minute, atomic-level variations caused by the simulated space environment."

With the demise of SDI space optics work at Rome, the chamber was renamed the Space Simulation Facility and was used sporadically under a 1994 memorandum of understanding with NASA's Goddard Space Flight Center.

It will now become the largest vertical cryogenic chamber at NASA's Marshall complex. The move will cost approximately \$300,000 and provide

space scientists and engineers with a capability estimated to cost between \$6 million and \$10 million if constructed new. @



STAR WARS — Crane removes cryogenic chamber from the Space Simulation Facility of the Air Force Research Laboratory's Information Directorate at the Griffiss Business & Technology Park.

Corporate awards (from page 1)

The Commander's Cup Award was presented to Christopher J. Risitich, Materials and Manufacturing Directorate, Wright-Patterson AFB. He leads the Integrated Agile Laser Protection Roadmap activity. This year's Commander's Cup Team Award was presented to the MightySat Payload Team, Space Vehicles Directorate, Kirtland AFB, New Mexico, for the outstanding mission success of the MightySat II. Team members include a 1st James Arnold, 1st Lt. Megan Bir, Capt. Scott Carter, Thomas Caudill, Thomas Cooley, Gerald Felde, 1st Lt. Jacob Freeman, Randolph Kahn, Eric Kouba, Ronald Lockwood, Craig McLaughlin, Capt. Eddie Meidunas, 1st Lt. Victor Osweiler, Ken Qassim, 2nd Lt. Rojan Quarles, Capt. Clifford Rudder, Chris Sabol, John Schummers, 1st Lt. Krista Steenbergen, and 2nd Lt. Summer Yarbrough.

The Scientific/Technical Management Award was presented to Kenneth R. Lockwood, Munitions Directorate, Eglin AFB, Florida for incorporating innovative technologies into eight flight tests over the course of a year. The Scientific/Technical Achievement award went to James R. Gord, Propulsion Directorate, Wright Patterson AFB. Gord was credited with increasing the level of understanding of fundamental and applied combustion processes and devices. Rolf Sondergaard and Maj. Jeffrey P. Bons of the Propulsion Directorate distinguished themselves by discovering a way to control flow separation on turbine blades and earning the Scientific/Technical Achievement Team Award.

The Senior Leadership Award went to Richard J. Hill, Propulsion Directorate for contributions to the Turbine Engine Division during a year of major reorganization and critical jet engine science and technology execution. Maj. Stephen D. Ford was honored with the Leadership Award for leading advances in the Airborne Laser beam control technology programs.

Brenda L. Weekley, Munitions Directorate, earned the Mission Support Award. Weekley, an electronics technician, led teams of technicians in the preparation for execution, and cleanup after a variety of complex explosive experiments. The Mission Support Team Award was presented to the Munitions Management Information Systems Team. Team members include: Government — Georgette Lare, Dee D. Soben, Phyllis L. Williams; Contractors — Lynda K. Brown, Kevin P. Hynes, Timothy J. Lord, Jeffrey L. Saunders, Joanne M. Nelson, and Teresa Rast. The team was credited with producing highly dependable, critical systems for business processes and streamlining activities.

Cynthia A. Laird, Air Vehicles Directorate, Wright-Patterson AFB, received the Senior Administrative Excellence Award for her support as a secretary to the various office throughout the directorate. Gerald L. Long, Directed Energy Directorate, Kirtland AFB, Albuquerque, N.M., was presented with the Administrative Excellence Award. Long provides administrative support and oversees office management, security, and functional area records management for two geographically separated units. @

AFRL, Delphi sign collaboration agreement for brakes

by Anne Gunter, AFRL Public Affairs

WRIGHT-PATTERSON AFB, Ohio — The Air Force Research Laboratory (AFRL) joined forces with an automotive industry leader recently to begin a revolutionary research and development project called "Brake by Wire."

During a press conference at the Miami Valley Research Park in Kettering, Ohio, AFRL and Delphi Automotive Systems signed a collaborative agreement to bring this new technology to the automotive industry. Together with Delphi, AFRL is to design, build and demonstrate a viable "brake by wire" system on a drivable vehicle within the next two years. Representative Tony Hall, D-Dayton, state Sen. Jeff Jacobsen, R-Phillipsburg, Ron Wine, president of the Miami Valley Economic Development Coalition, and Robert May, AFRL executive director delivered remarks during the event.

"Brake by wire" is defined as a next generation braking system that will stop a vehicle by electrical signals versus the conventional hydraulics systems on cars today.

AFRL's Air Vehicles, Materials and Manufacturing, and Propulsion directorates each are key players in this agreement. They bring forward specific technologies that will work in creating the brake by wire system.

The Air Force has a keen interest in how this project unfolds. One of the benefits from this agreement is the chance to prove that the various systems utilizing these key technologies have viable commercial applications outside of the Air Force. "Our interests are in validating the technology on high temperature power applications, control theory, reliable wiring and connectors for applications on aircraft and other aerospace systems," said George Schmitt, Chief Integration and Operations Division, Materials and Manufacturing directorate, and project lead for AFRL. "We anticipate that the technologies that are applied to ground vehicles would likewise be of use for ground-based defense systems."

Another possible benefit is the cost reduction of components for Air Force systems. "The automotive industry has a large quantity buy which will drive down the cost of more electric (ME) systems

and make them more affordable," said Joseph Weimer, Chief of the Electrical Technology and Plasma Physics Branch, Propulsion directorate.

The ME system utilizes fault tolerant electrical power and power electronics to drive aircraft sub-systems in lieu of less reliable hydraulic, pneumatic and mechanical power systems. Weimer has been working with this system since the early 1990s in the Propulsion directorate. "We have been researching the use of ME power to do more and more functions within the weapon systems. Delphi is interested in doing the same thing for automobiles. I am really excited about this opportunity - this is a real boost for us," he said. In 1999, the Miami Valley Economic Development Coalition undertook an automotive and manufacturing competitiveness study as part of its automotive initiative. This study pointed to "brake by wire" systems as a critical technology for Ohio's automotive and aerospace industries. The Coalition then brought together AFRL and Delphi through the Wright Technology Network, the Edison Materials Technology Center and NCIC Capital Fund to make this partnership happen.

"Currently, the motor vehicles industry is the largest employer in Ohio," said Marty Hohenberger, director for the automotive initiative at the Coalition. "By leveraging off of the region's core strengths in aerospace and automotive, we have an exciting opportunity to increase Ohio's economic base, lead new product development and bring a host of benefits to the consumer."

Federal, state and industry dollars are coming together to make this project a fiscal success. Federal dollars total \$1.8 million, the state has earmarked \$1 million, and Delphi is bringing forward approximately \$1.2 million.

Robert May, AFRL executive director, believes these partnerships are vital to ensure affordable technologies and a strong industrial base to support defense needs. "The Miami Valley Economic Development Coalition are to be congratulated for facilitating this arrangement that is clearly a win-win-win for the Air Force, for Delphi, and for the local community," he said. @

Kirtland educational outreach team wins national award

by Conrad E. Dziewulski, Directed Energy Public Affairs

KIRTLAND AIR FORCE BASE, N.M. – The Air Force Research Laboratory's educational outreach team recently received the Federal Laboratory Consortium for Technology Transfer's Excellence in Technology Transfer Award.

The Office of Technology Transfer for Education, headed by Gerald L. Mora and including Ronda Cole, Marla V. Griego and Raina Pellegrino, received the award at the consortium's annual meeting in Burlington, Vt.

The office sponsors educational outreach and mentoring programs for New Mexican students ranging from kindergarten through high school. Since 1994, more than 49,000 students from 140 schools statewide have participated in one of the activities.

Major activities include Marsville, in which fifth-graders plan a space mission to Mars that culminates with them establishing a simulated martian colony and Students Planning and Conducting Engineering, a high-school science-mentoring program. Others include: Computer Assisted Mathematics Instruction, providing technology to improve word problem solving along with reading and writing skills for high school students; Pinpoint WeatherNet, a collaborative effort with KOB-TV in Albuquerque, to boost math and science skills, and Providing Engineering and Technology Experiences for Students that encourages mentoring between fifth and sixth graders.

Mora, a University of New Mexico graduate, is most proud of receiving the New Mexico Distinguished Public Service Award for these projects.

Previously, the team received the General Ronald Yates 1997 Team Award, the Air Force's highest technology transfer honor.

"We're the most successful educational technology program in the Air Force," said Mora. @

DE Directorate's Col. Beason receives Legion of Merit

by Conrad E. Dziejewski, Directed Energy Public Affairs

KIRTLAND AFB, N.M. – Col. J. Douglas Beason received the Legion of Merit in ceremonies after retiring as commander, Phillips Research Site and deputy director, Directed Energy Directorate, Air Force Research Laboratory, with 24 years of military service.

Beason was cited for leadership which resulted in a \$30 million tri-service national Directed Energy Center being established with the Air Force as the lead service. Within two months of becoming site commander, the 1977 U.S. Air Force Academy graduate led the research site through a complete overhaul, earning an "Excellent" rating on the first Operational Readiness Inspection in nine years.

Beason previously worked for the president's science advisor at the White House Science Office as a key staffer for aeronautics, space science and technology at the Department of Defense, Department of Energy and the National Aeronautics and Space Administration. He also served as a technical team member and liaison to the Lawrence Livermore National Laboratory, representing the assistant to the Secretary of Defense for Joint Defense and Energy departments Stockpile Stewardship Programs.

Beason served on a vice presidential commission developing plans for a return to the moon and eventually Mars; as a deputy director for Advanced Weapons and head of the Plasma Physics Division here; and as director of faculty research and an instructor and professor at the Air Force Academy. He has conducted research in nuclear effects, high-energy plasmas, lasers, particle beams and high-power microwaves for national programs.

Beason, who has a doctorate in physics and is a Fellow of the



PHILLIPS RESEARCH SITE COMMANDER RETIRES – Col. J. Douglas Beason, commander of Phillips Research Site and deputy director of the Air Force Research Laboratory's Directed Energy Directorate, left, turns the tables on Gen. Ronald R. Fogleman, retired, former USAF chief of staff.

American Physical Society, has written more than 50 scientific and technical papers and wrote or co-authored more than 30 novels and short stories.

Gen. Ronald R. Fogleman, retired, former U.S. Air Force chief of staff presented the medal. @

Cadet Summer Research Program brings 14 to WPAFB

by Jill Bohn, AFRL Public Affairs

WRIGHT-PATTERSON AFB, Ohio — They represent the top of their class at the Air Force Academy - the best their major has to offer. The 14 cadets here at Wright-Patterson Air Force Base this summer have earned the right to participate in the Cadet Summer Research Program (CSRP). These cadets are the future of the Air Force.

For nearly 10 years now, CRSP has allowed for cadets between their junior and senior years to apply classroom skills to real-world work environments. The program places cadets within organizations worldwide that highlight their particular career focus. From there, they are assigned to specific projects and paired with mentors for approximately a six-week period.

While they have zeroed in on different courses of study, Cadets Matthew Booth and Sarah Hoffmeier both have aspirations of becoming pilots. They have been assigned to the Air Force Research Laboratory, Air Vehicles Directorate, Control Theory Optimization Branch.

"The program allows us to spend more time and dedicate more energy to a project, while working alongside professionals and specialists in the field," said Hoffmeier, an Engineering Sciences major from Northville, Mich. Under the mentorship of Dr. Ram Venkataraman, she has developed a computer model to control the NASA X-33 space plane during re-entry. AFRL is currently devel-

oping a complete set of control methods for the X-33 from takeoff to landing.

"It's an immersion program," said Cadet Matthew Booth, who is working under the supervision of William Blake. "At first it seemed like a lot of the information was going to be over our heads, but we're catching up quick."

Blake, who has sponsored the program for the past four years, said it's a real benefit to have extra people in the lab to work on a variety of projects. He personally enjoys seeing the progress made by the individual cadets during their stay.

During Booth's tenure at the laboratory, he has developed a computer model of a new transport design in support of the Cooperative Research and Development Agreement for Advanced Theatre Transport. This fall, results from his work will be included in a piloted simulation of the commercial design in the VA directorate's large motion based simulator.

Additionally, Booth, an Aeronautical Engineering major from Omaha, Neb., reduced and analyzed an Air Force/Army subsonic wind tunnel database on lattice control surfaces, an innovative missile control concept.

"It's been a real eye-opener from our perspective to see how everything we've learned in the classroom is being applied to these projects," Booth said. @

A Letter from the Secretary of the Air Force

TO THE MEN AND WOMEN OF THE UNITED STATES AIR FORCE:

I was recently sworn in as your 20th secretary of the Air Force and became, on that day, a proud member of a magnificent team of active duty airmen, guardsmen, reservists, and civilian employees. You have earned the admiration of our nation, the respect of the world, and the promise of a bright future. I already can tell you that you should be enormously proud of your achievements, from combat operations over Iraq and the Balkans to your recent validation of the Expeditionary Aerospace Force concept. In the realm of aerospace power, you fly the best, train the best, and maintain the best. As you put it: "No One Comes Close."

We must now turn our focus to the journey ahead, and be responsive to this new century's emerging security environment. I look forward to piloting that journey with you. My focus is on developing new strategies for military aerospace power in this new millennium; improving Air Force retention, professional education and leadership and development; eliminating the inefficiencies in how we do our business; and developing our acquisition policies and processes to ensure innovation and competitive vibrancy within our defense industrial base over the long haul. My vision is an aerospace future just as remarkable as your admired past: undeniable and global reconnaissance and strike superiority. My pledge to you is that I will serve the way you do every day, worldwide — with integrity, selflessness and in earnest pursuit of excellence.



James G. Roche

In 1963, President Kennedy said of military service: "I can imagine no more rewarding career. And any man who may be asked in this century what he did to make his life worthwhile, I think can respond with a good deal of pride and satisfaction: 'I served in the United States Navy.'" That sentiment rings very true for me. As you know, I am deeply proud of my Navy career. But, today we are in a new century, with new opportunities, new challenges, new capabilities, and vastly different threats to the security of our great nation. In this century, men and women can respond with a good deal of pride and satisfaction: "I serve in the United States Air Force." And now, I am proud to be able to say that too.

Signed

James G. Roche

Col. DeLorenzo named as new AFRL Vice Commander



Col. DeLorenzo

WRIGHT-PATTERSON AFB, Ohio – The Air Force Research Laboratory welcomed Col. Michael DeLorenzo as its new vice commander on July 2.

As vice commander, DeLorenzo will play a key role in directing the Air Force's \$1.3 billion science and technology budget plus an additional \$1.1 billion from the laboratory's customers. Approximately 5,400 people in the laboratory's component technology directorates and the Air Force Office of Scientific Research execute the science and technology program.

Born in Knoxville, Tenn., he earned a bachelor of science degree

in astronautical engineering and engineering science from the United States Air Force Academy in 1974. He earned a master of science degree in Electrical Engineering from New Mexico State University in 1978, and a doctorate from Purdue University in 1983.

His military education includes Air Command and Staff College and Air War College. During his career, he has been a test engineer, instructor, professor, deputy director of flights dynamics test at Arnold Engineering and Development Center. He also served as chief of Wright Laboratory's Advanced Guidance Division and acting chief scientist for Wright Laboratories Armament Directorate.

His last assignment was at the Air Force Academy as the permanent professor and heard, Department of Astronautics. His responsibilities included policy decisions for curriculum, personnel, research, budget, long-range planning, faculty development and cadet instruction. The colonel managed a \$1.4 million research program funded by AFRL and other DoD organization. @

AFMC Commander, union president build partnership

by Ron Fry, AFMC Public Affairs

WRIGHT-PATTERSON AFB, OHIO — The commander of Air Force Materiel Command and the national president of the American Federation of Government Employees, AFL-CIO met at AFMC headquarters recently to discuss building stronger ties through active partnership councils at the command and base levels.

Gen. Lester Lyles and Bobby Harnage joined center directors and local union presidents from across the command in their discussions. Lyles leads the Air Force's largest civilian work force and Harnage's union represents the vast majority of AFMC's civilian employees. Keeping with his emphasis on communication, Lyles said maintaining clear lines of communication is critical to a successful partnership.

"There's not a thing we can't do if we all communicate," he said. "Partnership is the embodiment of the spirit of communication."

Harnage said AFMC and the union must have a strong partnership if the two are to deal with change effectively.

"A good partnership helps insulate us," Harnage told the gathering. "If we agree on what we're doing, we can stand up to any change."

Harnage applauded Lyles' support of efforts to strengthen the union-management partnership in AFMC, particularly efforts to operationalize partnerships at all levels.

AFMC Executive Director Dr. Daniel Stewart and AFGE Council 214 President Scott Blanch, co-chairs of the command-level partnership council, briefed the leaders. They discussed the council's vision, goals and objectives used to build a strategy to operationalize the partnership concept throughout AFMC.

Initiatives include:

- Developing a plan to establish Alternative Dispute Resolution processes at each base, allowing people a way to resolve workplace disputes without filing a formal grievance or unfair labor complaint.

- Working to come to an agreement on 105 Air Force Instructions previously converted from Air Force regulations. The command and AFGE have reached agreement on 72 of the AFIs and are making progress on the majority of the remaining instructions.

- Working with the AFMC Surgeon General's office to develop a command-wide policy for workers compensation and return-to-work issues.

To further operationalize the partnership concept, Lyles agreed to include it in the upcoming 2002 AFMC Strategic Plan.

Lyles and Harnage received a briefing on the upcoming negotiations for the Master Labor Agreement between AFGE and the command and heard an update on AFMC's work force shaping plan, an effort to replenish the command's aging civilian work force. They also received a presentation on the Air Force Research Laboratory Demonstration Project and its performance-based pay system.

Harnage said the command's work force shaping efforts are a challenge.

"We do have some differences, but we need to get together



PARTNERSHIP FORMED — Bobby L. Harnage, national president of the American Federation of Government Employees, AFL-CIO, confers with Gen. Lester Lyles, commander of Air Force Materiel Command. The two met at AFMC Headquarters to discuss how to build a stronger partnership between the union and the command. (Air Force photo)

and discuss them," Harnage said. "The only way it's going to be done is through a partnership environment."

Lyles agreed and called for the command and AFGE to work together on a work force shaping legislative agenda that both the union and AFMC agree on.

Harnage did warn the group of his concern about further efforts to privatize work traditionally done by the government.

"If we can't control privatization, our efforts in pay and retention are for naught," he said.

But he was impressed with the AFMC and AFGE Council 214 Partnership Council's efforts.

"You've come a long way and done an outstanding job," he told the group.

Harnage praised the efforts of Lyles and former AFMC Commander Gen. George Babbitt who led forming the partnership councils some 18 months ago.

Lyles extended an invitation to Harnage to visit AFMC bases to learn more about the command and its mission. @

Wright-Patt earns a Grimmy Award

DAYTON, Ohio — Wright-Patterson Air Force Base won an 2001 Grimmy Award for Outstanding Friend of Literacy.

Wright-Patterson AFB recruited 100 volunteer reading tutors to help students from Fairborn, Mad River, Huber Heights and Dayton public schools during the 2000-01 school year.

The Wright-Patterson AFB Educational Outreach Office coordinated base volunteers and served a leadership role in the project through active participation on the Miami Valley READS Steering Committee.

The Grimmy Awards were given June 12 at the Crowne Plaza Dayton, where Mike Peters, Dayton Daily News cartoonist, was the keynote speaker. The awards are named for the character in Peters' daily comic strip, Mother Goose & Grimm.

Net Index

Due to the number of submissions we receive, some sections of *news@afrl* are available exclusively on-line. The on-line version of the newsletter allows users to view the AFRL corporate calendar, news releases generated by AFRL headquarters, operating instructions, L@b L@urels and Roundups sections.

The L@b L@urels section of the electronic newsletter is dedicated to members of Air Force Research Laboratory who receive awards and honors. The Roundups section of the electronic newsletter keeps Air Force Research laboratory employees informed about contracts AFRL has awarded. Below is an index of articles one can find in each of these on-line sections.

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- DE Directorate awards contracts totaling \$23 million

More Roundups featured online

To view the full text of these and other articles visit the *news@afrl* page on the Internet at <http://extra.afrl.af.mil/news/index.htm>.

To submit L@b L@urels or Roundups from your directorate, send a query to AFRL Public Affairs at:

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Anne.Gunter@afrl.af.mil

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News Briefs and L@b Distinctions*